

ABSTRACT

“Method for efficient equalization in a telecommunication system including at least one mobile transceiver”

The present invention relates to a method for transmitting data D_i in a telecommunication system SYST including a first transceiver TX_i and a second transceiver RX linked together by means of a communication channel Chi , one of which transceivers being mobile, which method includes:

- . a spreading step for spreading said data D_i over a plurality of components C_{tj} (for $j=1$ to M), and
- . an equalization step during which each component C_{tj} (for $j=1$ to M) is multiplied by an equalization value $W_i(j)^*$ representative of communication conditions within the communication channel Chi .

According to the invention, the equalization values $W_i(j)^*$ are also representative of a Doppler effect generated by movement of the mobile transceiver.

The invention enables to significantly compensate for alterations caused to the communication channel Chi by movement of the mobile transceiver.

Fig.1